

Title (en)  
METHOD AND APPARATUS FOR TRANSMITTING BROADBAND AMPLITUDE MODULATED RADIO FREQUENCY SIGNALS OVER OPTICAL LINKS

Title (de)  
VERFAHREN UND ANORDNUNG ZUM UEBERTRAGEN VON BREITBANDIGEN, AMPLITUDENMODULIERTEN RADIOFREQUENZSIGNALEN UEBER OPTISCHE VERBINDUNGEN

Title (fr)  
PROCEDE ET APPAREIL DE TRANSMISSION DE SIGNAUX DE HAUTE FREQUENCE MODULES EN AMPLITUDE A LARGE BANDE PAR LIAISONS OPTIQUES

Publication  
**EP 0507799 B1 19980701 (EN)**

Application  
**EP 91901147 A 19901121**

Priority  
• US 9006783 W 19901121  
• US 44646189 A 19891204

Abstract (en)  
[origin: US5500758A] An optical communications system including a plurality of modulated radio frequency carriers which span more than an octave in bandwidth. In one implementation, the carriers are grouped into ranges which span less than an octave in bandwidth and the individual groups are transmitted over unique optical links. In another implementation, the groups are multiplexed on one optical link by using different wavelengths. In still another implementation, several of the bands are up-converted to the highest band of interest and then transmitted, either over single or multiple links. The resulting optical signals are demodulated and then down-converted before they are recombined into the broadband signal in excess of an octave in bandwidth.

IPC 1-7  
**H04J 14/00**; H04J 1/00; H04B 10/06; H04J 14/02; H04B 10/14

IPC 8 full level  
**H04J 14/00** (2006.01); **H04B 10/155** (2006.01); **H04J 1/00** (2006.01); **H04J 14/02** (2006.01); **H04N 7/22** (2006.01)

CPC (source: EP US)  
**H04B 10/504** (2013.01 - EP US); **H04B 10/506** (2013.01 - EP US); **H04J 14/0298** (2013.01 - EP US); **H04N 7/22** (2013.01 - EP US)

Citation (examination)  
Communication System", Electronic Letters, Vol 23 No. 22, 22 October 1987, pp 1196-1198 see figure 1b.

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)  
**WO 9108631 A1 19910613**; AT E167968 T1 19980715; AU 647065 B2 19940317; AU 6914491 A 19910626; CA 2069944 A1 19910605; CA 2069944 C 19960813; DE 69032454 D1 19980806; DE 69032454 T2 19990325; DK 0507799 T3 19981026; EP 0507799 A1 19921014; EP 0507799 A4 19930609; EP 0507799 B1 19980701; ES 2118748 T3 19981001; JP H05502563 A 19930428; US 5191459 A 19930302; US 5379141 A 19950103; US 5500758 A 19960319

DOCDB simple family (application)  
**US 9006783 W 19901121**; AT 91901147 T 19901121; AU 6914491 A 19901121; CA 2069944 A 19901121; DE 69032454 T 19901121; DK 91901147 T 19901121; EP 91901147 A 19901121; ES 91901147 T 19901121; JP 50150190 A 19901121; US 32123494 A 19941011; US 44646189 A 19891204; US 99820892 A 19921230